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(54) LIQUID CRYSTAL COMPOSITION AND LIQUID CRYSTAL DISPLAY ELEMENT

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a liquid crystal composition high in resistivity, high reliability, useful as a liquid crystal display element high in voltage retention, comprising a specific optically active compound and a prescribed liquid crystal compound.

SOLUTION: This liquid crystal composition comprises (A) preferably ≤ 20 wt.% of one or more optically active compounds of formula I [R1 and R2 are each H or a 1-18C alkyl; R3 is a 1-5C alkyl; A1 to A6 are each is 1,4- phenylene, trans-1,4-cyclohexylene or 1,3-dioxane-2,5-diyl, etc.; X1 is a single bond, CH2 or C2H4; X2 to X6 are each a single bond or a 1-6C alkanediyl; * is a chiral carbon; II P, Q, S and T are each 0 or 1; $(P+Q+S+T) \leq 3$] and (B) one or more of liquid crystal compounds of formula II (R4 is R1; A7 to A10 are each 1,4-phenylene, trans-1,4-cyclohexylene, cyclohexylene, etc.; X7 to X9 are each a single bond or a 1-6C alkanediyl; B1 is H, F, Cl, CF3, OCF3, etc.; E, G and J are each 0 or 1).

